

1 In the claims:

2 1. An apparatus that controls access to a job ticket, wherein the job ticket relates to a
3 job request to be executed by one or more processors coupled to a communications network, the
4 apparatus comprising:

5 a work flow controller coupled to the communications network, wherein the work flow
6 controller is capable of defining a work flow corresponding to the job request, and capable of
7 defining the job ticket, and wherein the work flow comprises one or more branches; and

8 a job ticket service that is capable of storing the job ticket, wherein the job ticket comprises
9 a framework specifying the one or more branches, and wherein the job ticket service locks a
10 branch when the branch is accessed by a processor.

11 2. The apparatus of claim 1, wherein a branch comprises a lock/unlock flag, wherein
12 the lock/unlock flag is set to lock to lock the branch.

13 3. The apparatus of claim 2, wherein the lock/unlock flag locks the branch to prevent
14 branch modification, and wherein a second processor may access the locked branch in a read-only
15 mode.

16 4. The apparatus of claim 1, further comprising an access key, wherein the access key
17 is provided to the processor accessing the branch, and wherein the processor provides the access
18 key to the job ticket service to unlock the locked branch.

19 5. The apparatus of claim 4, wherein the job ticket service comprises a key encryption
20 system, and wherein the access key is encrypted using the key encryption service.

21 6. The apparatus of claim 1, wherein the processor that accesses the branch is
22 authorized access to the branch, and wherein such authorization is stored with the job ticket.

23 7. The apparatus of claim 1, further comprising a job store, wherein the job store
24 stores content corresponding to the branch, and wherein when the branch is unlocked, the
25 processor accesses the content.

26 8. The apparatus of claim 1, wherein the lock/unlock flag provides an indication of
27 lock status for the branch.

28 9. The apparatus of claim 1, wherein the job ticket service comprises a data table
29 listing branches of the work flow, and wherein when the processor access a branch, the job ticket
30 service marks the data table to indicate the branch is unavailable for modification.

- 1 10. A method for controlling access to a job ticket by locking branches of the job
2 ticket, wherein the job ticket relates to a job to be executed by one or more processors in an
3 electronic network, the method comprising:
4 identifying a branch of the job ticket;
5 receiving a branch access request from a processor;
6 providing the processor with access to the branch; and
7 locking the branch.
- 8 11. The method of claim 10, wherein the step of locking the branch comprises setting a
9 lock flag.
- 10 12. The method of claim 10, wherein the step of locking the branch comprises making a
11 lock entry in a data table.
- 12 13. The method of claim 10, wherein the step of locking the branch prevents branch
13 modification and allows read-only access to the branch.
- 14 14. The method of claim 10, further comprising providing a key to the processor,
15 wherein the key controls modification access to the branch.
- 16 15. The method of claim 14, further comprising encrypting the key.
- 17 16. The method of claim 14, further comprising returning the key to gain access to the
18 branch for modification.
- 19 17. A method for controlling access to a job ticket, comprising, wherein a plurality of
20 processors compete for selection to perform tasks related to the job ticket, comprising:
21 defining one or more tasks to complete the job ticket, wherein the job ticket comprises a
22 node-tree having a plurality of branches, and wherein each branch of the plurality of branches
23 includes one or more defined tasks;
24 receiving a request from one or more of the plurality of processors to access one or more
25 of the plurality of branches;
26 determining if a processor is currently accessing one or more of the plurality of branches;
27 for branches not being accessed, determining if the requesting one or more processors is
28 authorized access to the branches;
29 for branches for which access is authorized, copying information from the branches to the
30 authorized processors; and

- 1 locking the accessed branches.
- 2 18. The method of claim 17, wherein a processor accessing a branch modifies the
- 3 branch information, further comprising:
- 4 unlocking the branch; and
- 5 copying the modified branch information to the job ticket.
- 6 19. The method of claim 17, wherein the step of locking the branch comprises setting a
- 7 lock flag at the branch.
- 8 20. The method of claim 17, wherein the step of locking the branch prevents branch
- 9 information modification and allows read-only access to the locked branch.
- 10 21 A program storage device readable by a machine, tangibly embodying a program of
- 11 instructions executable by the machine to perform method steps for controlling access to a job
- 12 ticket, wherein a plurality of processors compete for selecting to perform tasks related to the job
- 13 ticket, the method steps, comprising:
- 14 defining one or more tasks to complete the job ticket, wherein the job ticket comprises a
- 15 node-tree having a plurality of branches, and wherein each branch of the plurality of branches
- 16 includes one or more defined tasks;
- 17 receiving a request from one or more of the plurality of processors to access one or more
- 18 of the plurality of branches;
- 19 determining if a processor is currently accessing one or more of the plurality of branches;
- 20 for branches not being accessed, determining if the requesting one or more processors is
- 21 authorized access to the branches;
- 22 for branches for which access is authorized, copying information from the branches to the
- 23 authorized processors; and
- 24 locking the accessed branches.
- 25 22. The program storage device of claim 21, wherein a processor accessing a branch
- 26 modifies the branch information, the method steps further comprising:
- 27 unlocking the branch; and
- 28 copying the modified branch information to the job ticket.